Dustin O'Brien

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Education

Salisbury University   Aug. 2021 – May 2025
GPA: 3.59/4.0   *Salisbury, MD*
B.S. in Computer Science & Data Science, Minor in Math   *Tracks: Software Engineering & AI/Algorithms*

Experience

Artificial Intelligence Researcher   June 2024 – September 2024
Salisbury University | Python, Langchain, FAISS, Pandas   *Salisbury, MD*

- Developed a set of LLM based applications in a collaborative environment of professors and student researchers to build LLM based chatbots and documents to explain client wants
- Helped orchestrate and wrote papers and presentations for MIT and Salisbury's undergrad research conferences

System Adminstration Intern   May 2024 – August 2024
Salisbury University | Linux, Windows, Python, Pytorch, Anaconda   *Salisbury, MD*

- Worked under Salisbury's Department Chair and System Adminstrator on the creation of 4 new computer labs totaling a setup of 44 new individual computers
- Created benchmarks for Salisbury & UMBC High Performance Computer labs on ability to train new Large Language Models for development of experimental new courses

Math & Comp. Sci Tutor   January 2024 – Present
Salisbury University | C/C++, Java, Python, R, Valgrind   *Salisbury, MD*

- Tutored and explained complex Mathematical & Computer Science topics such as Calculus, Systems Software, Discrete Maths, Data Visualization, and more with up to 35% increase in exam scores
- Debugged student codebases handling errors, logical problems, and memory leaks in a fast timely manner

Projects

Celite | *JavaScript, HTML/CSS, JQuery*   January 2024 – December 2024

- Worked in a Agile/Scrum development cycle to develope a set of efficient Celluar Automaton simulators
- Generated visually appealing and accurate imagery to be used for new mathematical textbooks, undergraduate research, and allow for more interactive teaching of the subject

Portfolio Website | *React, AWS (EC2), MUI, JavaScript, Nginx*   September 2024 – January 2025

- Created multi-page React website and components from scratch with visually distinctive styling
- Built custom personal AWS EC2 server to handle hosting site along with other personal projects, websites, and APIs for external display & usage

Technical Skills

- **Languages**: Python, Java, C/C++, Javascript, HTML/CSS, R
- **Tools**: React, LangChain, Next.JS, Sk-Learn, Pytorch, Jinja, OpenGL
- **Softwares**: Linux, VSCode, Vim, AWS (EC2), Nginx, Git/Github

Hackathons

- HenHacks 2024: Won Best Bank of America's Best Financial hack with a Haskell Vulnerability Detector
- HackUMBC 2024: Won 2nd place overall and best educational software with TestifAI, an AI-powered test generator
- HoyaHacks 2025: Created a professional looking AI based Resume platform using Next.JS, Python, and LangChain